

# GILA RIVER BASIN

09491000 NORTH FORK WHITE RIVER NEAR McNARY, AZ

LOCATION.--Lat 34°02'47", long 109°44'02", in E<sup>1</sup>/<sub>2</sub> sec.31, T.8 N., R.25 E. (unsurveyed), Apache County, Hydrologic Unit 15060102, in Fort Apache Indian Reservation, on left bank 1.9 mi downstream from Paradise Creek and 7 mi southeast of McNary.

DRAINAGE AREA.--66 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June 1945 to June 1947, May 1948 to June 1949, May 1950 to September 1954 (monthly discharge only, July to September 1954), June 1957 to September 1985 (discontinued). Maximum discharge only for water years 1955-56, published in WSP 1513. Prior to Oct. 1, 1963, published as White River near McNary.

REVISED RECORDS.--WSP 1243: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,723 ft above sea level.

REMARKS.--No storage above station. Water diverted about 5 mi upstream from station for use at McNary.

AVERAGE DISCHARGE.--33 years (water years 1946, 1951-53, 1958-85), 48.7 ft<sup>3</sup>/s, 35,280 acre-ft/yr; median of yearly mean discharges, 46 ft<sup>3</sup>/s, 33,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,310 ft<sup>3</sup>/s Oct. 2, 1983, gage height, 6.78 ft, from rating curve extended above 470 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum recorded, 4 ft<sup>3</sup>/s Nov. 19, 1948, and Nov. 29, 1950, caused by ice jam upstream.

## Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1946	09-19-46	1,290		1966	08-11-67	271	
1947	04-16-48	1,120		1967	04-15-68	351	
1948	04-15-49	656		1968	04-06-69	393	
1949	03-00-50	188		1969	04-10-70	310	
1950	08-28-51	167		1970	09-30-71	257	
1951	04-06-52	748		1971	09-30-71	257	
1952	03-29-53	152		1972	10-24-71	352	
1953	03-23-54	304		1973	04-28-73	1,000	ES
1954	00-00-55	145		1974	03-30-74	140	
1955	00-00-56	170		1975	05-15-75	350	
1956	08-24-57	729		1976	05-21-76	184	
1957	04-22-58	1,230		1977	04-09-77	316	
1958	10-05-58	148		1978	03-31-78	455	
1959	03-26-60	390		1979	12-18-78	1,060	
1960	04-05-61	248		1980	06-09-80	273	
1961	04-16-62	680		1981	04-13-81	397	
1962	09-10-63	385		1982	04-12-82	505	
1963	04-12-64	444		1983	06-01-83	552	
1964	04-23-65	791		1984	10-02-83	2,310	
1965	04-03-66	512		1985	03-12-85	754	

Magnitude and probability of instantaneous peak flow based on period of record 1946, 1948-85

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50	100†
50%	20%	10%	4%	2%	1%
407	742	1,030	1,460	1,850	2,280
Weighted skew	(logs) =	0.16			
Mean	(logs) =	2.62			
Standard dev.	(logs) =	0.30			

† Reliability of values in column is uncertain, and potential errors are large.

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## Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
153	18.5	9,320	79.7	3.0	32.2	2.9	5.5

